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room for criticism, and the execution seems as a general rule quite worthy of the plan.

RECENT BOOKS AND PAMPHLETS. — The Antelope and Deer of America. A Comprehensive Scientific Treatise upon the Natural History, including the Characteristics, Habits, Affinities, and Capacity for Domestication of the Antilocapra and Cervidae of North America. By John Dean Caton, LL.D. New York: Hurd & Houghton. Boston: H. O. Houghton & Co. 1877. 8vo, pp. 426. \$4.00.

Lists of Elevations Principally in that Portion of the United States West of the Mississippi River. Fourth Edition. Collated and arranged by Henry Gannett, M. E. (Misc. Publications, No. 1, U. S. Geological Survey of the Territories. F. V. Hayden, U. S. Geologist in charge.) Washington. 8vo, pp. 167.

Les Arachnides de France. Par Eugène Simon. Tome 2me. Contenant les Familles des Uroctidae, Agelenidae, Thomisidae, et Sparassidae. Paris, Roret. 1875. 8vo, pp. 358. Four plates. Tome 3me. Contenant les Familles des Attidae, Oxyopidae, et Lycosidae. Paris, Roret. 1876. 8vo, pp. 370, with 4 plates.

Notes on the African Saturniidae, in the Collection of the Royal Dublin Society. By W. F. Kirby. (Transactions Entomological Society of London. 1877. Part 1, April.) 8vo, pp. 21.

Ueber die in München Gezüchtete *Artemia fertilis* aus dem Grossen Salzsee von Utah. Von Prof. C. v. Siebold. Basel. 1877. 8vo, pp. 16.

Das Thierleben im Bodensee. Gemein Verständlicher Vortrag. Von August Weismann. Mit einer Tafel. Lindau. 1877. 8vo, pp. 31.

Fragmentarische Bemerkungen über das Ovarium des Frosches. Bemerkungen über die Eifurchung und die Betheiligung des Keimbläschens an Derselben. Von Alexander Brandt. (Zeitschrift für Wissenschaft. Zoölogie. Bd. XXVIII.) Leipzig. 1877. 8vo, pp. 31, with a plate.

United States Commission of Fish and Fisheries. Part III. Report of the Commissioner [Prof. S. F. Baird] for 1873-4 and 1874-5. Part III. Washington. 1876. 8vo, pp. 777.

Brehm's Thierleben. Band 9, Heft 8-13. Leipzig. 1877. New York: B. Westermann & Co. 8vo. 40 cents a Heft.

On the Origin of Kames or Eskers in New Hampshire. By Warren Upham. (From the Proceedings of the American Association for the Advancement of Science. Aug. 1876.) Salem. 1877. 8vo, pp. 10.

A brief Comparison of the Butterfly Faunas of Europe and Eastern North America, with Hints Concerning the Derivation of the Latter. By S. H. Scudder. (From the Proceedings of the American Association for the Advancement of Science. Aug., 1876.) Salem, June, 1877. 8vo, pp. 6.

The Influence of Physical Conditions in the Genesis of Species. By Joel A. Allen. (From the Radical Review, Vol. 1. No. 1, May, 1877.) 8vo, pp. 33.

Lobre Algunos Aracnidos de la República Argentina. Por el Dr. D. T. Thorell. (Periodico Zoológico, II., pp. 201-218.) 1877.

Études Scorpiologiques. Par T. Thorell. (Extrait du Vol. xix. des Actes de la Société Italienne de Sciences Naturelles. Milan. 1877. 8vo, pp. 198.

Liste Générale des Articulés Cavernicoles de l'Europe. Par L. Bedel et E. Simon (Extrait du Journal de Zoölogie, IV. 1875.) 8vo, pp. 69.

First Annual Report of the Ohio State Fish Commission for the Years 1875 and 1876. Columbus. 1877. 8vo, pp. 96, with cuts.

On the Inhabitants of the Admiralty Islands, etc. By H. N. Moseley. (Reported from the Journal of the Anthropological Institute. May, 1877.) 8vo, pp. 52, 4 plates.

The Early Stages of *Hippa talpoidea*, with a Note on the Structure of the Mandibles and Maxillæ in *Hippa* and *Remipes*. By S. I. Smith. (From The Transactions of the Connecticut Academy, Vol. iii. 1877.) 8vo, pp. 31, 4 plates.

Principal Characters of the Coryphodontidæ. Characters of the Odontornithes, with Notice of a New Allied Genus. Notice of a New and Gigantic Dinosaur. By O. C. Marsh. (From the American Journal of Science and Arts, xiv. July, 1877.) 8vo, pp. 8, 2 plates.

Zur Entwicklungsgeschichte der Dekapoden. Von Paul Mayer. (Abdruck aus der Jenaische Zeitschrift, für Naturwissenschaft, Bd. xi.) 8vo, pp. 81, 3 plates.

On the California Species of Fusus. 8vo, pp. 5. Preliminary Descriptions of New Species of Mollusks from the Northwest Coast of America. 8vo, pp. 6. By W. H. Dall. (From the Proceedings of the California Academy of Science, March 19, 1877.)

On the Brain of *Procamelus occidentalis*. By E. D. Cope. (From the Proceedings of the American Philosophical Society.) Published June 15, 1877. 8vo, pp. 52, with a plate.

On the Vertebrata of the Bone Bed in Eastern Illinois. By E. D. Cope. (From the Proceedings of the American Philosophical Society.) Published June 20, 1877. 8vo, pp. 11.

Ueber den Ursprung der Blumen. Von Dr. Hermann Müller. (Aus Kosmos.) 1877. 8vo, pp. 14.

Ueber Bau und Entwicklung des Stachels der Ameisen. Von Dr. H. Dewitz. (Siebold und Kölliker's Zeitschrift, xxviii.)

The Tailed Amphibians, including the Cæcilians. A Thesis: Presented to the Faculty of Michigan University. By W. H. Smith. Detroit. 1877. 12mo, pp. 158.

Tribes of the Extreme Northwest. By W. H. Dall. (Department of the Interior. U. S. Geographical and Geological Survey of the Rocky Mountain Region. J. W. Powell, Geologist in Charge. Part 1.) 1877. 4vo, pp. 106, with a map.

History of the American Bison, *Bison Americanus*. By J. A. Allen. (Extracted from the Ninth Annual Report of the U. S. Geological Survey. F. V. Hayden in charge.) Washington. 1877. 8vo, pp. 587.

Ethnography and Philology of the Hidatsa Indians. By Washington Matthews. (Miscellaneous Publications, No. 7, U. S. Geological and Geographical Survey. F. V. Hayden in charge.) Washington. 1877.

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## GENERAL NOTES.

### BOTANY.<sup>1</sup>

ILLUSTRATIONS OF NORTH AMERICAN FERNS. — It gives us sincere pleasure to learn that it is proposed by Mr. S. E. Cassino to publish an illustrated popular work on our ferns. The announcement is made that the drawings will be from sketches by Mr. J. H. Emerton, and that the text will be furnished by Professor Eaton. The latter is a recognized authority thoroughly familiar with American ferns; Mr. Emerton's skill as a draughtsman is well known to our readers. The plates are to be in color, and the work is promised at an exceedingly low price.

ACER DASYCARPUM. In 1843, Mr. Emerson measured a tree of this species, growing in the town of Stockbridge, Mass., when at three feet from the ground, it girted twelve feet. In October, 1876, the same tree was measured by Mr W. R. Robeson, who reports that its circumference at the same height, was then fifteen feet and nine inches, showing an annual average increase of circumference during the last thirty-three years of a little over 1.36 inches. — C. S. SARGENT.

<sup>1</sup> Conducted by PROF. G. L. GOODALE.